

WHAT IS CLAIMED IS:

- 1 1. A pulse wave Doppler application specific integrated circuit (PW-
2 ASIC).
- 1 2. A combined pulse wave and continuous wave Doppler beam former
2 application specific integrated circuit (PC-ASIC).
- 1 3. An ultrasound system application specific integrated circuit (US-
2 ASIC) having at least one beam former, a transducer controller, one or more digital signal
3 processor(s), and a plurality of input/output channels for linking to at least one memory
4 means, a power control system, a transducer and a user interface.